Notice of Allowability	Application No.	Applicant(s)	
	10/043,539	CHEUNG ET AL.	
	Examiner	Art Unit	
	Ginny Portner	1645	
The MAILING DATE of this communication app. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate committed in the committed in	n this application. If not included unication will be mailed in due course.	
1. This communication is responsive to <u>1/22/07</u> .			
2. The allowed claim(s) is/are 28.			
3. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE"	e been received. e been received in Applicatio cuments have been receive	on No d in this national stage application from	
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.	a roply complying wan all roquitons	
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXA es reason(s) why the oath or	AMINER'S AMENDMENT or NOTICE declaration is deficient.	OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date 	son's Patent Drawing Reviev		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the header according to 37 CF	ne drawings in the front (not the back) o R 1.121(d).	f '
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Int	formal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's	Mail Date Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8.	Statement of Reasons for Allowance	-

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: Claim 28 is directed to a method of detecting lead compounds, the term "lead" compound being defined to include compounds that can be identified by various means (see instant Specification paragraphs [0069 and 0071, cited herein), wherein the lead compounds forms a heterodimer with SarR of SEQ ID No 2 and are selected for evaluation as compounds that could inhibit the expression of virulence determinants in bacteria.

[0069] It is well-known to those normally skilled in the art that it is possible to replace peptides with peptidomimetics. Peptidomimetics are generally preferable as therapeutic agents to peptides owing to their enhanced bioavailability and relative lack of attack from proteolytic enzymes. Techniques of molecular modeling may be used to design a peptidomimetics which mimic the structure of the SarR peptide disclosed herein. Accordingly, the present invention also provides peptidomimetics and other <u>lead</u> compounds which can be identified based on the data obtained from structural analysis of the SarR protein disclosed herein. A potential SarR analog is examined through the use of computer modeling using a docking program such as GRAM, DOCK, or AUTODOCK. This procedure can include computer fitting of potential SarR analogs. Computer programs can also be employed to estimate the attraction, repulsion, and steric hindrance of an analog to a potential binding site. Generally the tighter the fit (e.g., the lower the steric hindrance, and/or the greater the attractive force) the more potent the potential drug will be since these properties are consistent with a tighter binding constant. Furthermore, the more specificity in the design of a potential drug the more likely that the drug will not interfere with other properties of the sarA expression system. This will minimize potential side-effects due to unwanted interactions with other proteins.

Detail Description Paragraph:

[0071] Such computer modeling allows the selection of a finite number of rational chemical modifications, as opposed to the countless number of essentially random chemical modifications that could be made, and of which any one might lead to a useful drug. Thus through the use of the three-dimensional structure disclosed herein and computer modeling, a large number of compounds is rapidly screened and a few likely candidates can be determined without the laborious synthesis of untold numbers of compounds.

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The Prior art of record does not teach, nor reasonably suggest such a method for identifying new compounds that could serve a lead compounds which in turn can serve as new antibacterials.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ginny Portner whose telephone number is (571) 272-0862. The examiner can normally be reached on flextime, but usually M-F, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on (571) 272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent

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Vgp

January 30, 2007

MARK NAVARRO

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